

**REPLACEMENT
SHEET**

Application No: 10/723,769
 Attorney Docket No: 13913-151001
 Applicants: Andreas Blumenthal et al.
 TESTING FLOW CONTROL AT TEST ASSERTION LEVEL
 Sheet: 1 of 6

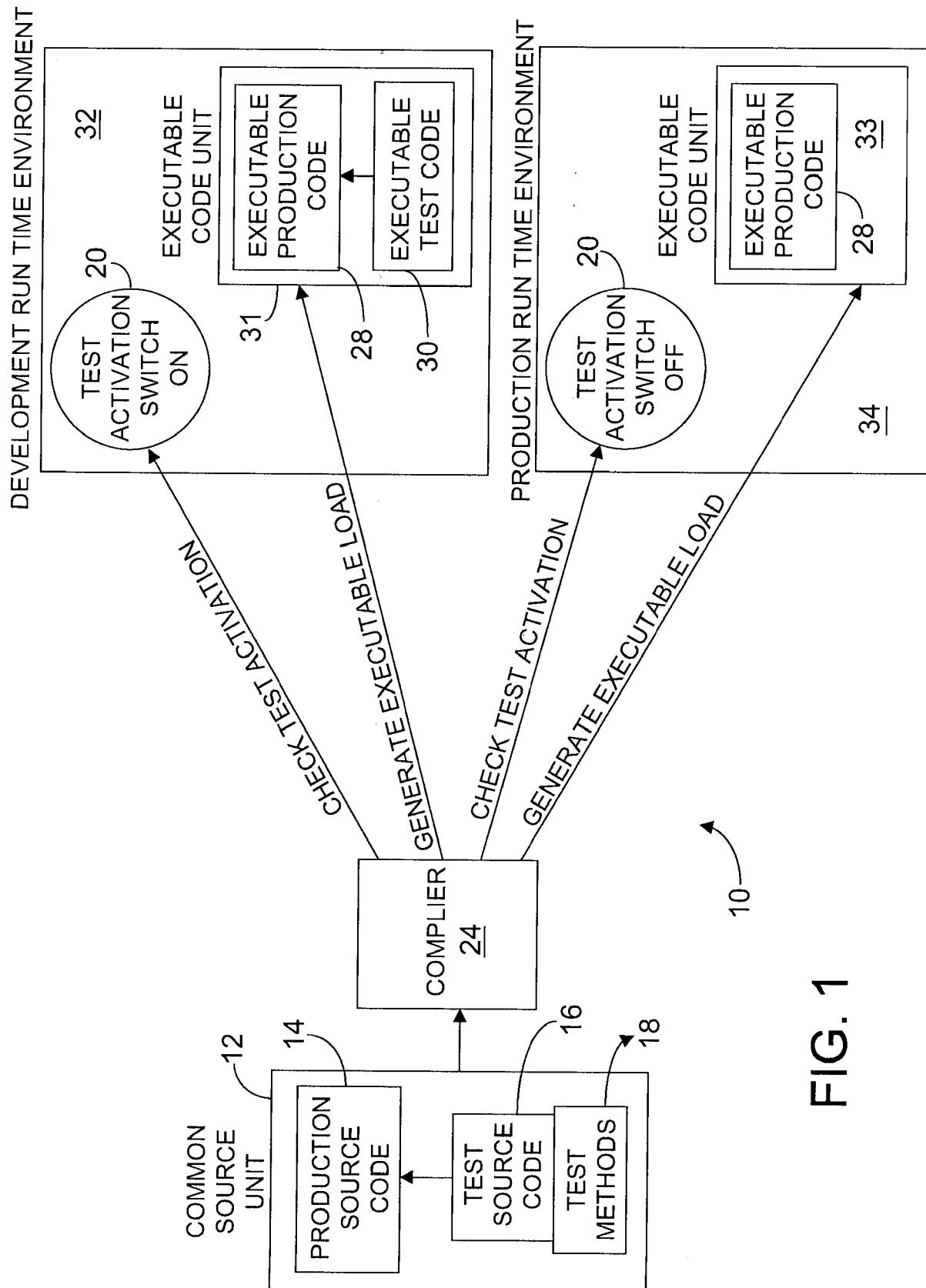


FIG. 1

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```

14a { * 1. productive class :
      * definaton
      class OPERATIONS definition.
          public section.
              class-methods:
                  ADD importing A type I
                  B type I
                  returning VALUE (RESULT) type I.
          endclass.

14b { * implementation
      class OPERATIONS implementation.
          method ADD.
              RESULT = A + B.
          endmethod.
      endclass.

18a { * 2. test class:
      * definition
      class TEST_OPERATIONS definition for testing.
          public section.
              methods TEST_ADD for testing.
          endclass.

18b { * implementation
      class TEST_OPERATIONS implementation.

          method TEST_ADD.

          * test data: variable needed to store the result from the productive method:
          data: ACTUAL_RESULT type I.

          * call the method under test:
          ACTUAL_RESULT = OPERATIONS->ADD ( A = 3  B = 5 ).  

          * compare the result with the expected value:
          CL_AUNIT_ASSERT->ASSERT_EQUALS (
              ACT = ACTUAL_RESULT
              EXP = 8
              MSG = 'this is the message which occurs if the test failed'
          ).  

          endmethod.

      endclass.
  
```

FIG. 2

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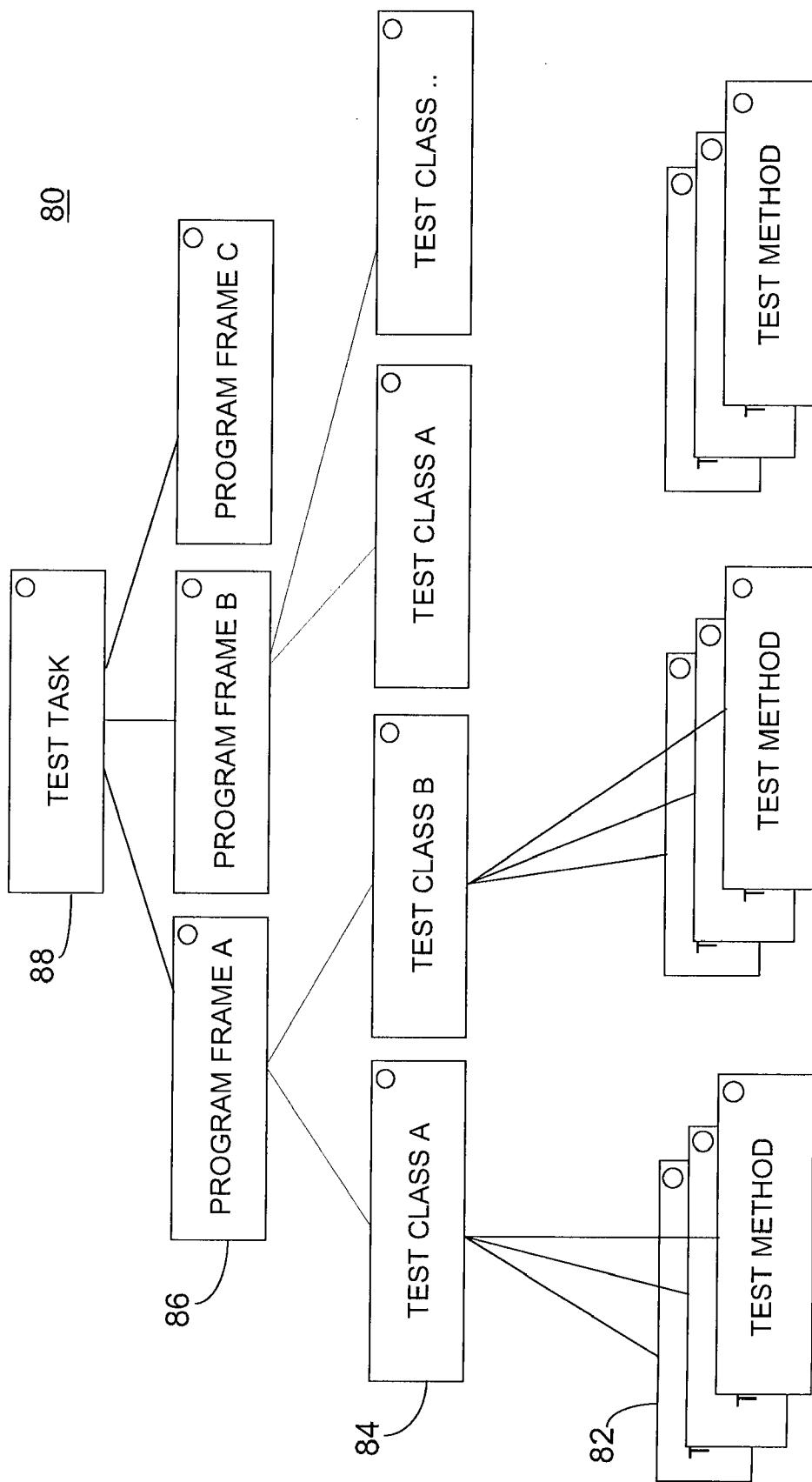


FIG. 3

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ASSERT_EQUALS (ACT = ACTUAL RESULT

EXP = EXPECTED_RESULT

MSG = 'this test has failed'

QUIT = QUIT_VALUE).

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Where QUIT_VALUE defines at which level the test flow should be interrupted:

- NO: continue the current test method.
- METHOD: interrupt the current test method.
- CLASS: interrupt the test class execution.
- PROGRAM: abandon all test class executions of the currently tested program frame.

FIG. 4

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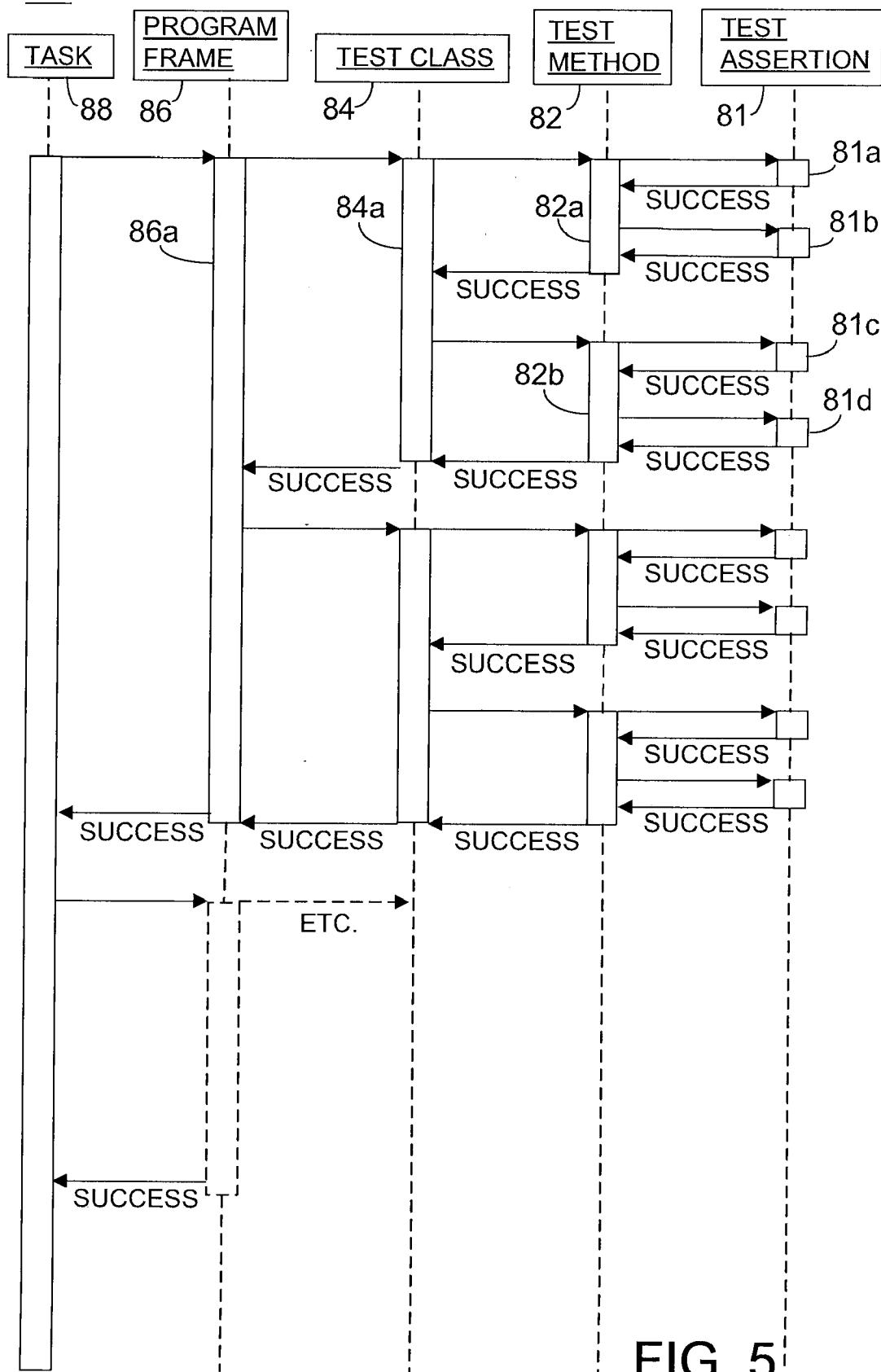


FIG. 5

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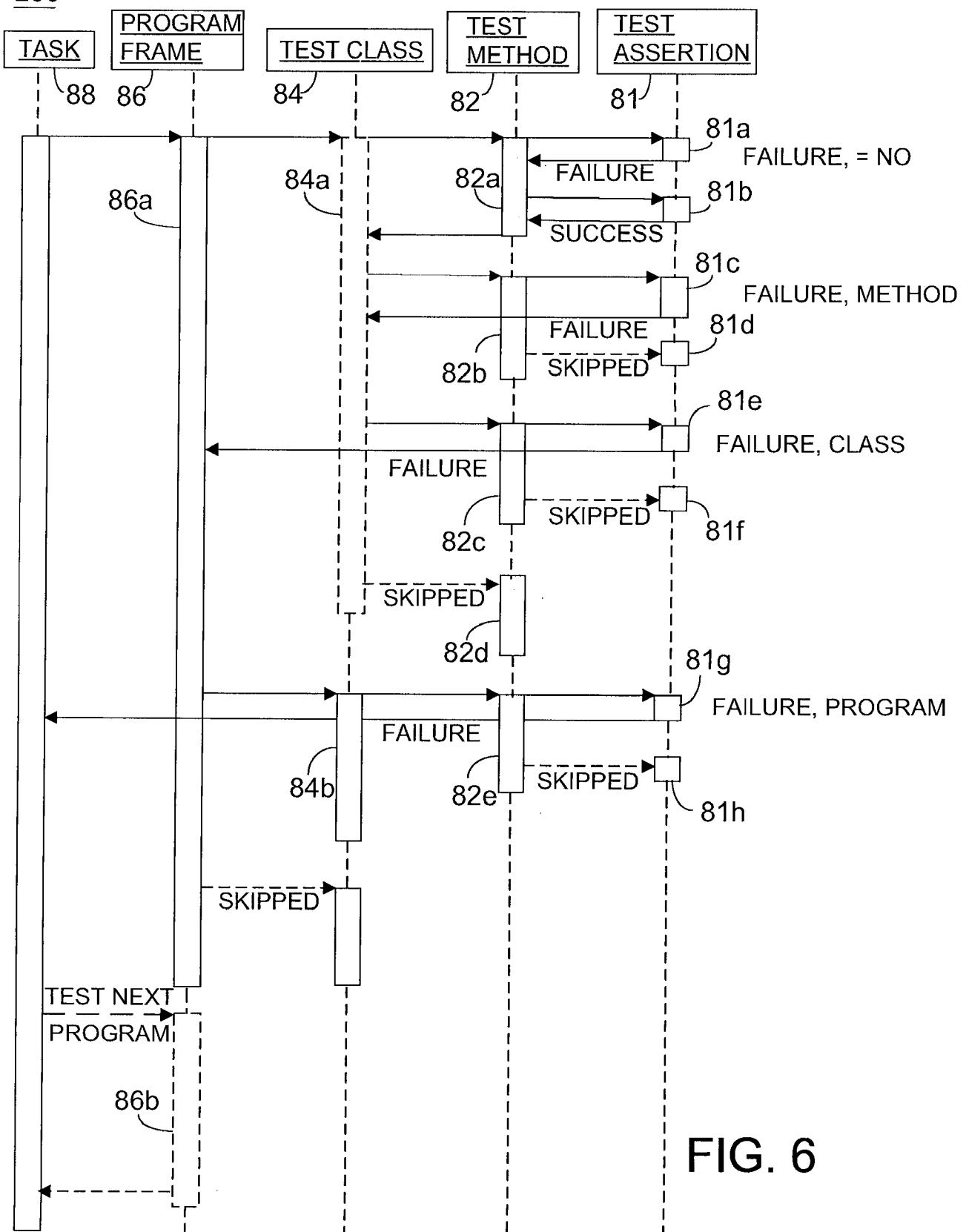


FIG. 6